

Amendment to the Specification

Please amend paragraph [0051] to read as follows:

[0051] The oscillator produces the electromagnetic field that stimulates the excitation of the resonance to the be probed. It also provides the photon that stimulates the output photon that is detected as evidence of CARS or CSRS. There are many types of oscillators and fields that can produce CARS. Each pulse produced by the oscillator should be nearly identical so that it can excite consistent signals in the reference generator and sample. If the oscillator produces too variable of a signal, the signals from the reference generator and sample may change and produce signals that can be confused with noise sources. Variability in the oscillator output is a noise source in itself that adds uncertainty to what the expected demodulated signal should be.